

Lord Adhesives Thermoset,ç UR-329 Two Component Urethane Potting Compound

Category : Polymer , Adhesive , Thermoset , Polyurethane, TS , Thermoset Polyurethane, Adhesive

Material Notes:

Lord UR-329 is a flexible, two-component, room temperature curing, urethane, encapsulating compound. UR-329 maintains low hardness and modulus over a wide temperature range, which imparts minimal stress on delicate electronic components. UR-329 is a filled system, which enhances its ability to dissipate heat. It is often suitable in applications operating up to 130°C. UR-329 also exhibits excellent thermal shock resistance, very good electrical properties and good adhesion to a variety of materials. All information provided by Lord.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lord-Adhesives-Thermoset-UR-329-Two-Component-Urethane-Potting-Compound.php

Physical Properties	Metric	English	Comments
Water Absorption	0.16 %	0.16 %	
	@Temperature 25.0 Å°C, Time 86400 sec	@Temperature 77.0 Å°F, Time 24.0 hour	ASTM D570
Loss On Ignition	<= 0.10 %	<= 0.10 %	
	@Temperature 125 Å°C, Time 605000 sec	@Temperature 257 Å°F, Time 168 hour	
Viscosity	60 cP	60 cP	Hardener; STM 1
	@Temperature 25.0 Å°C	@Temperature 77.0 Å°F	
	4400 cP	4400 cP	Mixed; STM 1
	@Temperature 25.0 Å°C	@Temperature 77.0 Å°F	
	11000 cP	11000 cP	Resin; STM 1
	@Temperature 25.0 Å°C	@Temperature 77.0 Å°F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	25 - 30	25 - 30	ASTM D2240

Thermal Properties	Metric	English	Comments
CTE, linear	191.7 Åµm/m-Å°C	106.5 Åµin/in-Å°F	ASTM D3386
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ftÅ²-Å°F	
Maximum Service Temperature, Air	130 Å°C	266 Å°F	

Glass Transition Temp, Tg Thermal Properties	-68.0 Â°C Metric	-90.4 Â°F English	ASTM D3386 Comments
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Electrical Properties	Metric	English	Comments
Volume Resistivity	1.06e+15 ohm-cm	1.06e+15 ohm-cm	ASTM D257
Dielectric Constant	4.4 @Frequency 1.00e+6 Hz, Temperature 25.0 Â°C	4.4 @Frequency 1.00e+6 Hz, Temperature 77.0 Â°F	ASTM D150
Dielectric Strength	>= 19.7 kV/mm	>= 500 kV/in	ASTM D149
Dissipation Factor	0.0448 @Frequency 1.00e+6 Hz, Temperature 25.0 Â°C	0.0448 @Frequency 1.00e+6 Hz, Temperature 77.0 Â°F	ASTM D150

Processing Properties	Metric	English	Comments
Cure Time	180 - 240 min @Temperature 66.0 Â°C	3.00 - 4.00 hour @Temperature 151 Â°F	Full
	1440 min @Temperature 25.0 Â°C	24.0 hour @Temperature 77.0 Â°F	Initial
	4320 - 5760 min @Temperature 25.0 Â°C	72.0 - 96.0 hour @Temperature 77.0 Â°F	Full
Pot Life	60 - 90 min @Temperature 25.0 Â°C	60 - 90 min @Temperature 77.0 Â°F	
Gel Time	60.0 min @Temperature 66.0 Â°C	60.0 min @Temperature 151 Â°F	
Shelf Life	6.00 Month @Temperature 25.0 Â°C	6.00 Month @Temperature 77.0 Â°F	

Descriptive Properties	Value	Comments
Appearance	Amber (w/fluorescent yellow die)	Hardener
	Black	Mixed

Descriptive Properties	Block Value	Resin Comments
Mix Ratio	100:15	by weight
	5:1	by volume

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